## AMENDMENTS TO THE CLAIMS

- 1. (Currently amended) In a computer system comprising a plurality of nodes interconnected for communication via a network, a method including acts of:
- (A) capturing, in a <u>first</u> data structure <u>of a plurality of data structures</u>, a notification provided by a node on the network, the notification <u>having a characteristic and</u> comprising at least a portion of a transmission by the node, the transmission describing a network event, the <u>first data structure</u> being selected among the plurality of data structures to store the notification based at least in part on the characteristic;
  - (B) identifying a data element within the notification;
- (C) updating an index, based on the data element, with an indication of a location within the first data structure where the data element is recorded;

wherein the data element identifies a notification type for the notification, an originating internet protocol (IP) address for the notification and/or a destination IP address for the notification; and

wherein the characteristic comprises an IP address of the node and/or a time period during which the notification occurred.

- 2. (Currently amended) The method of claim 1, wherein the act (A) further comprises storing the <u>first</u> data structure in a non-volatile storage.
- 3. (Currently amended) The method of claim 2, wherein the act (A) further comprises storing the <u>first</u> data structure in a file system in the non-volatile storage.
- 4. (Original) The method of claim 3, wherein the file system is a hierarchical file system.

- 5-6. (Canceled).
- 7. (Currently amended) The method of claim 1, wherein the <u>first</u> data structure is a file.
- 8. (Currently amended) The method of claim 2, further comprising an act of compressing the first data structure.

- 9. (Currently amended) The method of claim 2, further comprising an act of creating a digital signature for the <u>first</u> data structure.
- 10. (Original) The method of claim 1, wherein the transmission comprises at least one of a SYSLOG message, an SNMP message, a NetFlow message and a TCP packet.
- 11. (Currently amended) The method of claim 1, further comprising acts of:
- (D) accessing the index to determine, based on the indication, the location of the data element within the <u>first</u> data structure; and
  - (E) accessing the data element at the location.
- 12. (Original) The method of claim 1, further comprising an act of creating a summary based at least in part on a presence of the data element within the notification.
- 13. (Original) The method of claim 12, further comprising an act comprising accessing the summary to determine the presence of the data element within the <u>first</u> data structure.

14. (Currently amended) At least one computer-readable medium encoded with instructions which, when executed by a computer, perform a method in a computer system comprising a plurality of nodes interconnected for communication via a network, a method including acts of:

4

- (A) capturing, in a <u>first data structure of a plurality of</u> data structures, a notification provided by a node on the network, the notification <u>having a characteristic and</u> comprising at least a portion of a transmission by the node, the transmission describing a network event, the <u>first data structure</u> <u>being selected among the plurality of data structures to store the notification based at least in part on the characteristic;</u>
  - (B) identifying a data element within the notification;
- (C) updating an index, based on the data element, with an indication of a location within the <u>first</u> data structure where the data element is recorded;

wherein the data element identifies a notification type for the notification, an originating internet protocol (IP) address for the notification and/or a destination IP address for the notification; and

wherein the characteristic comprises an IP address of the node and/or a time period during which the notification occurred.

- 15. (Currently amended) The at least one computer-readable medium of claim 14, further comprising instructions defining storing the <u>first</u> data structure in a non-volatile storage.
- 16. (Currently amended) The at least one computer-readable medium of claim 15, further comprising instructions defining storing the <u>first</u> data structure in a file system in the non-volatile storage.
- 17. (Original) The at least one computer-readable medium of claim 16, wherein the file system is a hierarchical file system.

18-19. (Canceled).

20. (Currently amended) The at least one computer-readable medium of claim 14, wherein the <u>first</u> data structure is a file.

- 21. (Currently amended) The at least one computer-readable medium of claim 15, further comprising instructions defining compressing the <u>first</u> data structure.
- 22. (Currently amended) The at least one computer-readable medium of claim 15, further comprising instructions defining creating a digital signature for the <u>first</u> data structure.
- 23. (Original) The at least one computer-readable medium of claim 14, wherein the transmission comprises at least one of a SYSLOG message, an SNMP message, a NetFlow message and a TCP packet.
- 24. (Currently amended) The at least one computer-readable medium of claim 14, further comprising instructions defining accessing the index to determine, based on the indication, the location of the data element within the <u>first</u> data structure; and accessing the data element at the location.
- 25. (Original) The at least one computer-readable medium of claim 14, further comprising instructions defining creating a summary based at least in part on a presence of the data element within the notification.

6

- 26. (Currently amended) The at least one computer-readable medium of claim 25, further comprising instructions defining accessing the summary to determine the presence of the data element within the <u>first</u> data structure.
- 27. (Currently amended) A system for monitoring activity occurring in a computer system comprising a plurality of nodes interconnected for communication via a network, the system comprising at least one processor programmed to implement:

a capture controller, said capture controller capturing, in a <u>first</u> data structure <u>of a plurality of data structures</u>, a notification provided by a node on the network, the notification <u>having a characteristic and</u> comprising at least a portion of a transmission by the node, the transmission describing a network event, the <u>first data structure being selected among the plurality of data</u> structures to store the notification based at least in part on the <u>characteristic</u>;

an identification controller, said identification controller identifying a data element within the notification;

an update controller, said update controller updating an index, based on the data element, with an indication of a location within the <u>first</u> data structure where the data element is recorded;

wherein the data element identifies a notification type for the notification, an originating internet protocol (IP) address for the notification and/or a destination IP address for the notification; and

wherein the characteristic comprises an IP address of the node and/or a time period during which the notification occurred.

28. (Currently amended) The system of claim 27, wherein the capture controller further stores the <u>first</u> data structure in a non-volatile storage.

29. (Currently amended) The system of claim 28, wherein the capture controller further stores the <u>first</u> data structure in a file system in the non-volatile storage.

7

- 30. (Original) The system of claim 29, wherein the file system is a hierarchical file system.
- 31-32. (Canceled).
- 33. (Currently amended) The system of claim 27, wherein the first data structure is a file.
- 34. (Currently amended) The system of claim 28, further comprising a compression controller, said compression controller compressing the <u>first</u> data structure.
- 35. (Currently amended) The system of claim 28, further comprising a signature controller, said signature controller creating a digital signature for the <u>first</u> data structure.
- 36. (Original) The system of claim 27, wherein the transmission comprises at least one of a SYSLOG message, an SNMP message, a NetFlow message and a TCP packet.
- 37. (Currently amended) The system of claim 27, further comprising:

an access controller, said access controller accessing the index to determine, based on the indication, the location of the data element within the <u>first</u> data structure; and accessing the data element at the location.

Reply to Office Action of September 19, 2008

(Original) The system of claim 27, further comprising a summary controller, said summary 38. controller creating a summary based at least in part on a presence of the data element within the notification.

8

(Currently amended) The system of claim 38, further comprising a summary access 39. controller, said summary access controller accessing the summary to determine the presence of the data element within the first data structure.

40-81. (Canceled).

(Currently amended) A system for monitoring activity occurring in a computer system 82. comprising a plurality of nodes interconnected for communication via a network, the system comprising at least one processor programmed to implement:

means for capturing, in a first data structure of a plurality of data structures, a notification provided by a node on the network, the notification having a characteristic and comprising at least a portion of a transmission by the node, the transmission describing a network event, the first data structure being selected among the plurality of data structures to store the notification based at least in part on the characteristic;

means for identifying a data element within the notification;

means for updating an index, based on the data element, with an indication of a location within the first data structure where the data element is recorded;

wherein the data element identifies a notification type for the notification, an originating internet protocol (IP) address for the notification and/or a destination IP address for the notification; and

wherein the characteristic comprises an IP address of the node and/or a time period during which the notification occurred.

83. (Currently amended) The system of claim 82, wherein the means for capturing stores the

- <u>first</u> data structure in a non-volatile storage.
- 84. (Currently amended) The system of claim 83, wherein the means for capturing stores the first data structure in a file system in the non-volatile storage.
- 85. (Original) The system of claim 84, wherein the file system is a hierarchical file system.
- 86-87. (Canceled).
- 88. (Currently amended) The system of claim 82, wherein the <u>first</u> data structure is a file.
- 89. (Currently amended) The system of claim 83, further comprising means for compressing the <u>first</u> data structure.
- 90. (Currently amended) The system of claim 83, further comprising means for creating a digital signature for the <u>first</u> data structure.
- 91. (Original) The system of claim 82, wherein the transmission comprises at least one of a SYSLOG message, an SNMP message, a NetFlow message and a TCP packet.
- 92. (Currently amended) The system of claim 82, further comprising:

means for accessing the index to determine, based on the indication, the location of the data element within the first data structure; and

10

means for accessing the data element at the location.

- 93. (Original) The system of claim 82, further comprising means for creating a summary based at least in part on a presence of the data element within the notification.
- (Currently amended) The system of claim 93, further comprising means for accessing the 94. summary to determine the presence of the data element within the <u>first</u> data structure.

95-108. (Canceled).

- (New) The method of claim 1, wherein the data element identifies a notification type for the 109. notification.
- (New) The method of claim 1, wherein the data element identifies an originating internet 110. protocol (IP) address for the notification.
- 111. (New) The method of claim 1, wherein the data element identifies a destination IP address for the notification.
- (New) The method of claim 1, wherein the characteristic comprises an IP address of the 112. node.

- 113. (New) The method of claim 1, wherein the characteristic comprises a time period during which the notification occurred.
- 114. (New) The at least one computer-readable medium of claim 14, wherein the data element identifies a notification type for the notification.
- 115. (New) The at least one computer-readable medium of claim 14, wherein the data element identifies an originating internet protocol (IP) address for the notification.
- 116. (New) The at least one computer-readable medium of claim 14, wherein the data element identifies a destination IP address for the notification.
- 117. (New) The at least one computer-readable medium of claim 14, wherein the characteristic comprises an IP address of the node.
- 118. (New) The at least one computer-readable medium of claim 14, wherein the characteristic comprises a time period during which the notification occurred.
- 119. (New) The system of claim 27, wherein the data element identifies a notification type for the notification.
- 120. (New) The system of claim 27, wherein the data element identifies an originating internet protocol (IP) address for the notification.

(New) The system of claim 27, wherein the data element identifies a destination IP address for the notification.

- (New) The system of claim 27, wherein the characteristic comprises an IP address of the 122. node.
- (New) The system of claim 27, wherein the characteristic comprises a time period during 123. which the notification occurred.
- (New) The system of claim 82, wherein the data element identifies a notification type for the 124. notification.
- (New) The system of claim 82, wherein the data element identifies an originating internet 125. protocol (IP) address for the notification.
- (New) The system of claim 82, wherein the data element identifies a destination IP address 126. for the notification.
- (New) The system of claim 82, wherein the characteristic comprises an IP address of the 127. node.
- (New) The system of claim 82, wherein the characteristic comprises a time period during 128. which the notification occurred.